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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/784,852	02/16/2001	Akihiro Hino	SCEI 3.0-045	3840	
75	90 03/18/2003				
Lerner, David, Littenberg,			EXAMINER		
Krumholz & Mentlik, LLP 600 South Avenue, West		CASCHERA, ANTONIO A			
Westfield, NJ	07090		ART UNIT	PAPER NUMBER	
			2697	8	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
Office Action Summary		09/784,852	HINO ET AL.
		Examiner	Art Unit
		Antonio A Caschera	2697
Period fo	The MAILING DATE of this communication apport Reply	ears on the cover sheet with the o	correspondence address
- Exte after - If the - If NC - Failu - Any	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	mely filed s will be considered timely. the mailing date of this communication.
1)	Responsive to communication(s) filed on	<u>_</u> .	
2a)	This action is FINAL . 2b)⊠ Thi	s action is non-final.	
3) [Since this application is in condition for allowa closed in accordance with the practice under <i>t</i> ion of Claims	nce except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 53 O.G. 213.
4) 🖂	Claim(s) 1-25 is/are pending in the application.		
	4a) Of the above claim(s) is/are withdraw	n from consideration.	
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-25</u> is/are rejected.		
7)	Claim(s) is/are objected to.	·	
8)	Claim(s) are subject to restriction and/or	election requirement.	
Applicati	on Papers		
9)🖂 🗆	The specification is objected to by the Examiner.		
10)🖾 7	Γhe drawing(s) filed on <u>02/16/2001</u> is/are: a)⊠ a	accepted or b) objected to by the	Examiner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
11) 🗌 7	The proposed drawing correction filed on	is: a)☐ approved b)☐ disappro	ved by the Examiner.
	If approved, corrected drawings are required in repl	·	
12)□ T	The oath or declaration is objected to by the Exa	miner.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).
a)[2	☑ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority documents	have been received.	
:	2. Certified copies of the priority documents	have been received in Application	on No
	 Copies of the certified copies of the priorit application from the International Bure ee the attached detailed Office action for a list o 	eau (PCT Rule 17.2(a)).	-
14)∐ Ad	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application).
_a)	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	isional application has been rece	eived.
Attachment((s)		
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5-7</u>	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)
J.S. Patent and Tra PTO-326 (Rev.		on Summary	Part of Paper No. 8

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copies have been filed in the pending application.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - a. The phrase, "That is, according to the present intention..." should be replaced with, "That is, according to the present invention..." (see line 1, paragraph 23 on page 7). Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-3, 6, 8-10, 16, 17, 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Arai et al. (U.S. Patent 6,121,977).

In reference to claim 1, Arai et al. discloses a image creation apparatus capable of displaying changing states of delicate movements of objects such as real time wave movement in water (see column 2, lines 15-19). Arai et al. discloses defining a region of movement in an image and dividing such region into elongated regions called "slices" (see column 9, lines 42-53, lines 59-65 and Figures 1 and 3A-D). Arai et al. also discloses applying a shifting mask translation to each "slice" and then drawing the shifted slice at a shifted position (see columns 9-10, lines 66-7 and Figures 3A-D). Arai et al. discloses repeating the steps of performing shifted translations on each slice which are located in a random calculated distance and direction from a previous "slice" (see column 10, lines 8-13, S25-S26 of Figure 2 and Figures 3B-D). Note, Arai et al. does not explicitly disclose the combining of the shifted "slices" and the region of movement however it is inherent that since an output image disclosing both shifted "slices" and region of movement is disclosed, a combining step must have occurred within Arai et al. (see #14 of Figure 1).

In reference to claims 2 and 8, Arai et al. discloses all of the claim limitations as applied to claims 1 and 6 respectively in addition, Arai et al. discloses randomly selecting width sway amounts to shift "slices" within a certain range of widths (see columns 9-10, lines 66-13 and Figures 3A-D). Note the office interprets the random generation shifting of "slices" to be similar to applicant's selecting of random mask patterns.

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In reference to claim 3, Arai et al. discloses all of the claim limitations as applied to claim 1 above in addition, Arai et al. discloses the "slices" of a region to be adjacent to each other (see Figures 3A-D).

In reference to claim 6, claim 6 is similar in scope to claims 1 and 4 and therefore is rejected under similar rationale.

In reference to claim 9, claim 9 is similar in scope to claim 1 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system for performing graphic manipulations (see column 25, lines 53-62 and Figure 44).

In reference to claim 10, Arai et al. discloses all of the claim limitations as applied to claim 9 above. Claim 10 is similar in scope to claim 2 and therefore is rejected under similar rationale.

In reference to claim 16, claim 16 is similar in scope to claim 1 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system using a program for performing graphic manipulations (see column 25, lines 53-62 and Figure 44). It is clear that a computer system using a program must comprise of a sort of recording medium.

In reference to claim 17, Arai et al. discloses all of the claim limitations as applied to claim 16 above. Claim 17 is similar in scope to claim 2 and therefore is rejected under similar rationale. It is clear that a computer system using a program must comprise of a sort of recording medium.

In reference to claim 23, claim 23 is similar in scope to claim 1 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system using a program for performing graphic manipulations (see column 25, lines 53-62 and Figure 44).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4, 5, 7, 11-15, 18-22, 24, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arai et al. (U.S. Patent 6,121,977).

In reference to claim 4, Arai et al. discloses a image creation apparatus capable of displaying changing states of delicate movements of objects such as real time wave movement in water (see column 2, lines 15-19). Arai et al. discloses defining a region of movement in an image and dividing such region into elongated regions called "slices" (see column 9, lines 42-53, lines 59-65 and Figures 1 and 3A-D). Arai et al. discloses randomly selecting width sway amounts to shift "slices" within a certain range of widths (see columns 9-10, lines 66-13 and Figures 3A-D). Arai et al. also discloses applying a shifting translation to each "slice" and then drawing the shifted slice at a shifted position (see columns 9-10, lines 66-7 and Figures 3A-D). Arai et al. discloses repeating the steps of performing shifted translations on each slice which are located in a random calculated distance and direction from a previous "slice" (see column 10, lines 8-13, S25-S26 of Figure 2 and Figures 3B-D). Note, Arai et al. does not explicitly disclose the shimmering of a background image however, referring to Figure 1 of Arai et al., the above graphic manipulations performed on the sway region (#12) of the foreground could be performed on background images as well so that applicant's randomly altered image is interpreted as the

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final reflection in the lake (see #14), the mask pattern as the sway region information (the lake, #12), the composite image as the swayed reflection drawn onto the lake (#14) and the revised image to combine the background with the swayed reflection as shown in (#14). Also, Arai et al. does not explicitly disclose the combining of the shifted "slices", the region of movement and background of the image however it is inherent that since an output image showing the above is disclosed, a combining step must have occurred within Arai et al. (see #14 of Figure 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the image altering steps of Arai et al. whether the image section being altered is a foreground, background or after part of the image as it is simply a matter of where the object to be altered is located in the original image.

In reference to claims 5 and 7, Arai et al. discloses all of the claim limitations as applied to claims 4 and 6 respectively above in addition, Arai et al. discloses defining sway region information as the region of the water surface corresponding to the surface of the lake (see column 9, lines 42-53). Arai et al. discloses calculating a sway movement by way of generating random numbers within a certain range (see columns 9-10, lines 66-13 and Figures 3A-D). Arai et al. discloses displaying the water surface with a precise "sway" (see column 9, lines 40-41) by applying a shifting translation to each "slice" and then drawing the shifted slice at a shifted position (see columns 9-10, lines 66-7 and Figures 3A-D). Arai et al. does not explicitly disclose drawing the texture image in a predetermined texture area however, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a texture area, such as a texture buffer (see paragraph 70, page 20 of specification), when drawing a texture image in order to temporarily store the texture image before manipulating it as the definition of a buffer is

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well known in the art to temporarily store data ("buffer." The Authoritative Dictionary of IEEE Standards Terms. IEEE Press, 2000. 7th edt. Pg. 123.).

In reference to claim 11, claim 11 is similar in scope to claim 4 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system for performing graphic manipulations (see column 25, lines 53-62 and Figure 44).

In reference to claims 12 and 14, Arai et al. discloses all of the claim limitations as applied to claims 11 and 13 respectively. Claims 12 and 14 are similar in scope to claim 5 and therefore are rejected under similar rationale. Note Arai et al. also discloses a computer system for performing graphic manipulations (see column 25, lines 53-62 and Figure 44).

In reference to claim 13, claim 13 is similar in scope to claims 1 and 4 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system for performing graphic manipulations (see column 25, lines 53-62 and Figure 44).

In reference to claim 15, Arai et al. discloses all of the claim limitations as applied to claim 13 above in addition, Arai et al. discloses randomly selecting width sway amounts to shift "slices" within a certain range of widths (see columns 9-10, lines 66-13 and Figures 3A-D). Arai et al. also discloses a computer system using a program for performing graphic manipulations (see column 25, lines 53-62 and Figure 44). Note the office interprets the random generation shifting of "slices" to be similar to applicant's selecting of random mask patterns.

In reference to claim 18, claim 18 is similar in scope to claim 4 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system using a program for performing graphic manipulations (see column 25, lines 53-62 and Figure 44). It is clear that a computer system using a program must comprise of a sort of recording medium.

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In reference to claims 19 and 21, Arai et al. discloses all of the claim limitations as applied to claims 18 and 20 respectively. Claims 19 and 21 are similar in scope to claim 5 and therefore are rejected under similar rationale. Note Arai et al. also discloses a computer system using a program for performing graphic manipulations (see column 25, lines 53-62 and Figure 44). It is clear that a computer system using a program must comprise of a sort of recording medium.

In reference to claims 20 and 25, claims 20 and 25 are similar in scope to claims 1 and 4 and therefore are rejected under similar rationale. Note Arai et al. also discloses a computer system for performing graphic manipulations (see column 25, lines 53-62 and Figure 44). It is clear that a computer system using a program must comprise of a sort of recording medium.

In reference to claim 22, Arai et al. discloses all of the claim limitations as applied to claim 20 in addition, Arai et al. discloses randomly selecting width sway amounts to shift "slices" within a certain range of widths (see columns 9-10, lines 66-13 and Figures 3A-D).

Note the office interprets the random generation shifting of "slices" to be similar to applicant's selecting of random mask patterns. Also note, Arai et al. discloses a computer system for performing graphic manipulations (see column 25, lines 53-62 and Figure 44). It is clear that a computer system using a program must comprise of a sort of recording medium.

In reference to claim 24, claim 24 is similar in scope to claim 4 and therefore is rejected under similar rationale. Note Arai et al. also discloses a computer system using a program for performing graphic manipulations (see column 25, lines 53-62 and Figure 44).

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Antonio Caschera whose telephone number is (703) 305-1391. The examiner can normally be reached Monday-Thursday and alternate Fridays between 7:00 AM and 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso, can be reached at (703)-305-3885.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

aac

3/10/03